

### NITED STATES PATENT AND TRADEMARK OFFICE

In re application of

Confirmation No. 7254

Hiroshi YAHATA et al.

Attorney Docket No. 2005 1603A

Serial No. 10/552,371

Group Art Unit 2622

Filed October 7, 2005

INFORMATION RECORDING MEDIUM, AND APPARATUS AND METHOD FOR RECORDING INFORMATION TO INFORMATION RECORDING MEDIUM

THE COMMISSIONER IS AUTHORIZED TO CHARGE ANY DEFICIENCY IN THE FEES FOR THIS PAPER TO DEPOSIT ACCOUNT NO. 23-0975

## INFORMATION DISCLOSURE STATEMENT

Commissioner for Patents P.O. Box 1450 Alexandria, VA 22313-1450

Sir:

Pursuant to the provisions of 37 CFR 1.56, 1.97 and 1.98, Applicants request consideration of the references listed on attached form PTO-1449 and any additional information identified below in paragraph 3. A legible copy of each reference listed on the Form PTO-1449 is enclosed, except a copy is not provided for:

- [X] each U.S. Patent and U.S. Patent application publication;
- each reference previously cited in the international application
  PCT/ : and/or
- [] each reference previously cited in prior parent application Serial No.
- la. [X] This Information Disclosure Statement is submitted:

within three months of the filing date (or of entry into the National Stage) of the above-entitled application,  $\bf or$ 

1FW

before the mailing of a first Office Action on the merits or the mailing of a first Office Action after the filing of an RCE, and thus no certification and/or fee is required. 1h [] This Information Disclosure Statement is submitted after the events of above paragraph 1a and prior to the mailing date of a final Office Action or a Notice of Allowance or an action which otherwise closes prosecution in the application, and thus: (1) [] the certification of paragraph 2 below is provided, or (2) [] the fee of \$180.00 specified in 37 CFR 1.17(p) is enclosed. lc. [] This Information Disclosure Statement is submitted: after the mailing date of a final Office Action or Notice of Allowance or action which otherwise closes prosecution in the application, and prior to payment of the issue fee, and thus: the certification of paragraph 2 below is provided, and the fee of \$180.00 specified in 37 CFR 1.17(p) is enclosed. 2. It is hereby certified a. [] that each item of information contained in this Information Disclosure Statement was first cited in any communication from a foreign patent office in a counterpart foreign application not more than three months prior to the filing of the Statement, or b. [] that no item of information contained in the Information Disclosure Statement was cited in a communication from a foreign patent office in a counterpart foreign application and, to the knowledge of the person signing the certification

after making reasonable inquiry, was known to any individual designated in \$1.56(c) more than three months prior to the filing of the Statement.

- Consideration of the following list of additional information (including any copending or abandoned U.S. application, prior uses and/or sales, etc.) is requested.
- For each non-English language reference listed on the attached form PTO-1449, reference is made to:
  - a. [] a full or partial English language translation submitted herewith,
  - b. [] a foreign patent office search report (in the English language) submitted herewith.
  - c. [] the concise explanation contained in the specification of the present application at page,
  - d. [] the concise explanation set forth in the attached English language abstract,
  - e. [] the concise explanation set forth below or on a separate sheet attached to the reference:
- [X] A foreign patent office search report and a U.S. Patent Office Action citing one or more of the references is enclosed.
- Statement Under 37 CFR 1.704(d)

Each item of information contained in the Information Disclosure Statement was first cited in any communication from a foreign Patent Office in a counterpart application, and this communication was not received by any individual designated in §1.56(c) more than thirty days prior to the filing of the Information Disclosure Statement.

Respectfully submitted,

Hiroshi YAHATA et al.

David M. Ovedovitz

Registration No. 45,336 Attorney for Applicants

DMO/ra Washington, D.C. 20006-1021 Telephone (202) 721-8200 Facsimile (202) 721-8250 Sheet 1 of 1

INFORMATION DISCLOSURE STATEMENT

FORM PTO 1449 (modified)

U.S. DEPARTMENT OF COMMERCE PATENT AND TRADEMARK OFFICE

LIST OF REFERENCES CITED BY APPLICANT(S) (Use several sheets if necessary)

ATTY DOCKET NO. 2005\_1603A

SERIAL NO. 10/552,371

JUN 0 7 2007

APPLICANT Hiroshi YAHATA et al. FILING DATE

GROUP

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Dat	te Submit	ted to PTO: June 7, 200	7	October 7, 2005		2622		
			U.	S. PATENT DOCUMENTS				
'EXAMINER INITIAL		DOCUMENT NUMBER	DATE	NAME	CLASS	SUBCLASS	FILING DAT APPROPRIA	E IF ATE
/HD/	AA	6,014,368	1/2000	Sanami				
/HD/	AB	6,211,800	4/2001	Yanagihara et al.				
/HD/	AC	6,266,483	7/2001	Okada et al.				
/HD/	AD	6,567,409	5/2003	Tozaki et al.				
/HD/	AE	6,868,125	3/2005	Gendel				
/HD/	AF	2002/0064376	5/2002	Fukushima				
/HD/	AG	6,122,436	9/2000	Okada et al.				
/HD/	АН	6,594,442	7/2003	Kageyama et al.				
/HD/	Al	6,445,877	9/2002	Okada et al.				
/HD/	AJ	6,374,037	4/2002	Okada et al.				
/HD/	AK	2003/0133699	7/2003	ANDO et al.				
			FORE	IGN PATENT DOCUMENTS				
		DOCUMENT NUMBER	DATE	COUNTRY	CLASS	SUBCLASS	TRANSLATI YES	ON NO
/HD/	AL	0 785 675	7/1997	EP				
/HD/	AM	1 209 922	5/2002	EP			corres to AF	
/HD/	AN	0 949 825	10/1999	EP			corres to AG	
/HD/	AO	0 965 991	12/1999	EP			corres to AH	
/HD/	AP	1 003 337	5/2000	EP			corres to Al	
/HD/	AQ	1 030 307	8/2000	EP			corres to AJ	
/HD/	AR	1 087 402	3/2001	EP				
/HD/	AS	1 021 048	7/2000	EP			corres to AK	
EXAMINER		/Hung Dang/		DATE CONSIDER	RED 0	8/22/2007		



# UNITED STATES PATENT AND TRADEMARK OFFICE

JNITED STATES DEPARTMENT OF COMMERCE.
Juited States Patent and Trademark Office
iddress: COMMISSIONER FOR PATENTS
P.O. Box 1450

APPLICATION NO.	FILING DATE	FIRST NAMED INVENTOR	ATTORNEY DOCKET NO.	CONFIRMATION NO
10/552,372	02/06/2006	Hiroshi Yahata	2005_1602A	7252
52349 WENDEROTE	7590 03/22/2007 -I, LIND & PONACK L.L.F	•	EXAM	INER
2033 K. STRE			FINDLEY, CH	RISTOPHER G
SUITE 800 WASHINGTO	N, DC 20006		ART UNIT	PAPER NUMBER
	,		2621	
HORTENED STATUTOR	RY PERIOD OF RESPONSE	MAIL DATE	DELIVER	Y MODE
2340	NITHO	02/22/2002	0.47	nno.

Please find below and/or attached an Office communication concerning this application or proceeding.

If NO period for reply is specified above, the maximum statutory period will apply and will expire 6 MONTHS from the mailing date of this communication.

COPY



A SHORTENED STATUTORY PERIOD FOR REPLY IS SET TO EXPIRE 3 MONTH(S) OR THIRTY (30) DAYS, WHICHEVER IS LONGER, FROM THE MAILING DATE OF THIS COMMUNICATION.  Extensions of the many be available and the provided of the provide	· · · · · · · · · · · · · · · · · · ·	f	(4)
## Disposition of Claims    April   A		Application No.	Applicant(s)
Christopher Findley   Z621		10/552,372	YAHATA ET AL.
Period for Reply  A SHORTENED STATUTORY PERIOD FOR REPLY IS SET TO EXPIRE 3 MONTH(S) OR THIRTY (30) DAYS, WHICHEVER IS LONGER, FROM THE MAILING DATE OF THIS COMMUNICATION.  Extension of time may be available under the provisions of 3 CFR 1.136(), in a nevent, however, may a reply be fixed after SX (8) MONTHS from the mailing date of this communication, a no event, however, may a reply be fixed after SX (8) MONTHS from the mailing date of this communication, and will apply and will expire SX (8) MONTHS from the mailing date of this communication, and will apply and will expire SX (8) MONTHS from the mailing date of this communication, and will apply and will expire SX (8) MONTHS from the mailing date of this communication, and will apply and will expire SX (8) MONTHS from the mailing date of this communication, and will apply and will expire SX (8) MONTHS from the mailing date of this communication, and will apply and will expire SX (8) MONTHS from the mailing date of this communication, and the same patients to be subject to the date of this communication, and will apply and will expire SX (8) MONTHS from the mailing date of this communication, and the same patients of the communication of this communication, and the same patients of the communication of this communication, and the same patients of the communication of this communication of this communication.  1) □ Responsive to communication(s) filed on	Office Action Summary	Examiner	Art Unit
A SHORTENED STATUTORY PERIOD FOR REPLY IS SET TO EXPIRE 3 MONTH(S) OR THIRTY (30) DAYS, WHICHEVER IS LONGER, FROM THE MAILING DATE OF THIS COMMUNICATION.  **Examination of time may be available after of this communication.** In 1969, in no event, however, may a reply be timely find of the property of			
WHICHEVER IS LONGER, FROM THE MAILING DATE OF THIS COMMUNICATION.  Educations of time may be available under the provided of 37 ER1 1-13(b), in ne event, however, may a reply be timely field after SX (6) MONTHS from the mailing date of this communication.  If NO perdod to may be specified bloom, the most or revolved by the provided provided by the provided provided by the timely field of the communication.  If NO perdod to may be specified bloom, the most or revolved by the provided by the beceme ABANDODED GS U.S.C. § 133). Any reply received by the Office later than three movems after the mailing date of this communication, even if timely field, may reduce any seared patent them adjustment. See 37 CFR 1.774(b).  Status  1) Responsive to communication(s) filed on	The MAILING DATE of this communication app Period for Reply	ears on the cover sheet with the o	correspondence address
1) Responsive to communication(s) filed on	WHICHEVER IS LONGER, FROM THE MAILING DV.  Estensions of time may be available under the provisions of 37 CFR 1.11  eiter SIV. (b) MONTHS from the mailing date of this communication,  1 NO percent for regity is specified above, the maximum statutory period via  Failure to regity within the set or extended period for regity will, by statute, Any remy received by the Office later than three months after the mailing	ATE OF THIS COMMUNICATION 36(a). In no event, however, may a reply be tin will apply and will expire SIX (6) MONTHS from cause the application to become ARANDONE	N. nely filed the mailing date of this communication. ED (35 U.S.C. § 133).
2a) This action is FINAL.  2b) This action is non-final.  3   Since this application is in condition for allowance except for formal matters, prosecution as to the merits is closed in accordance with the practice under Ex parte Quayle, 1935 C.D. 11, 453 O.G. 213.  Disposition of Claims  4) Claim(s)	Status		
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Disposition of Claims  4) ☑ Claim(s) 1-18 is/are pending in the application. 4a) Of the above claim(s) 2-6.8-12 and 14-18 is/are withdrawn from consideration.  5) ☐ Claim(s) is/are allowed.  6) ☑ Claim(s) is/are objected to. 8) ☐ Claim(s) is/are objected to. 8) ☐ Claim(s) is/are objected to nestriction and/or election requirement.  Application Papers  9) ☐ The specification is objected to by the Examiner.  10) ☐ The drawing(s) filed on is/are: a) ☐ accepted or b) ☐ objected to by the Examiner.  Applicant may not request that any objection to the drawing(s) be held in abeyance. See 37 CFR 1.85(a).  Replacement drawing sheet(s) including the correction is required if the drawing(s) is objected to. See 37 CFR 1.121(d).  11) ☐ The oath or declaration is objected to by the Examiner. Note the attached Office Action or form PTO-152.  Priority under 35 U.S.C. § 119  12) ☑ Acknowledgment is made of a claim for foreign priority under 35 U.S.C. § 119(a)-(d) or (f).  a) ☑ All b) ☐ Some * c) ☐ None of:  1. ☑ Certified copies of the priority documents have been received.  2. ☐ Certified copies of the priority documents have been received in Application No.  3. ☐ Copies of the certified copies of the priority documents have been received in this National Stage application from the International Bureau (PCT Rule 17.2(a)).  * See the attached detailed Office action for a list of the certified copies not received.  Attachment(s)  1) ☑ Notice of Paterences Cited (PTO-892)  2) ☐ Notice of Draftsperson's Patent Drawing Review (PTO-948)  3) ☑ Interview Summary (PTO-413)  Paper Not(s)/Mail Dates			
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Signature   Sign			
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11) The oath or declaration is objected to by the Examiner. Note the attached Office Action or form PTO-152.  Priority under 35 U.S.C. § 119  12) Acknowledgment is made of a claim for foreign priority under 35 U.S.C. § 119(a)-(d) or (f).  a) All b) Some * c) None of.  1. Certified copies of the priority documents have been received.  2. Certified copies of the priority documents have been received in Application No.  3. Copies of the certified copies of the priority documents have been received in this National Stage application from the International Bureau (PCT Rule 17.2(a)).  * See the attached detailed Office action for a list of the certified copies not received.  Attachment(s)  1) Notice of References Cited (PTO-892)  1) Notice of Disclosure Statement(s) (PTO/SB08)  Paper Not(s)/Mail Date See Continuation Sheet.  4) Interview Summary (PTO-413)  Paper Not(s)/Mail Date See Continuation Sheet.  6) Other:			
Priority under 35 U.S.C. § 119  12) ⊠ Acknowledgment is made of a claim for foreign priority under 35 U.S.C. § 119(a)-(d) or (f).  a) ⊠ All b) □ Some * c) □ None of.  1. ☑ Certified copies of the priority documents have been received.  2. □ Certified copies of the priority documents have been received in Application No. □  3. □ Copies of the certified copies of the priority documents have been received in this National Stage application from the International Bureau (PCT Rule 17.2(a)).  * See the attached detailed Office action for a list of the certified copies not received.  Attachment(s)  1) ☑ Notice of References Cited (PTO-892)  2) □ Notice of Draftsperson's Patent Drawing Review (PTO-948)  3) ☑ Internation Disclosure Statement(s) (PTO/SB08)  Paper No(s)/Mail Date See Continuation Sheet.  5) □ Notice of Informal Patent Application  6) □ Other: □			
12) Acknowledgment is made of a claim for foreign priority under 35 U.S.C. § 119(a)-(d) or (f).  a) All b) Some * c) None of.  1. Certified copies of the priority documents have been received.  2. Certified copies of the priority documents have been received in Application No.  3. Copies of the certified copies of the priority documents have been received in this National Stage application from the International Bureau (PCT Rule 17.2(a)).  * See the attached detailed Office action for a list of the certified copies not received.  Attachment(s)  1) Notice of References Cited (PTO-892)  Notice of Draftsperson's Patent Drawing Review (PTO-948)  3) Internation Disclosure Statement(s) (PTO/SB08)  Paper Not(s)/Mail Date See Continuation Sheet.  6) Other:			
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Continuation of Attachment(s) 3). Information Disclosure Statement(s) (PTO/SB/08), Paper No(s)/Mail Date :10/07/2005, 2/06/2006, 3/28/2006, 10/24/2006.

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#### DETAILED ACTION

 It is noted that claims 2-6, 8-12, and 14-18 have been cancelled by the applicant via Preliminary Amendment on 2/06/2006.

## Claim Rejections - 35 USC § 101

2. 35 U.S.C. 101 reads as follows:

Whoever invents or discovers any new and useful process, machine, manufacture, or composition of matter, or any new and useful improvement thereof, may obtain a patent therefor, subject to the conditions and requirements of this title.

Claims 1, 7, and 13 are rejected under 35 U.S.C. 101 because the claimed invention is directed to non-statutory subject matter.

Independent claim 1 recites "a recording medium for storing system stream" and claims 7 and 13 recite "recording the system stream to a recording medium," which fails to meet the statutory requirement set forth in the <u>Interim Guidelines, Annex IV (a)</u>. The video information has to be embodied in a computer-readable medium. Claims 1, 7, and 13 fail to recite this aspect. Claim 1 should read, "a computer readable medium for storing system stream." Claims 7 and 13 should read, "storing the system stream to a computer readable medium." For the purposes of prior art analysis, claims 1, 7, and 13 will be interpreted as relating to computer readable media containing video information.

### ANNEX IV

(a) Functional Descriptive Material: "Data Structures" Representing

Descriptive Material Per Se or Computer Programs Representing

Computer Listings Per Se

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Data structures <u>not claimed as embodied in computer-readable media</u> are descriptive material per se and <u>are not statutory</u> because they are not capable of causing functional change in the computer.

## Claim Rejections - 35 USC § 103

- 4. The following is a quotation of 35 U.S.C. 103(a) which forms the basis for all obviousness rejections set forth in this Office action:
  - (a) A patent may not be obtained though the invention is not identically disclosed or described as set forth in section 102 of this title, if the differences between the subject matter sought to be patented and the prior art are such that the subject matter as a whole would have been obvious at the time the invention was made to a person having ordinary skill in the art to which said subject matter pertains. Patentability shall not be negatived by the manner in which the invention was made.
- 5. The factual inquiries set forth in *Graham v. John Deere Co.*, 383 U.S. 1, 148 USPQ 459 (1966), that are applied for establishing a background for determining obviousness under 35 U.S.C. 103(a) are summarized as follows:
  - Determining the scope and contents of the prior art.
  - 2. Ascertaining the differences between the prior art and the claims at issue.
  - 3. Resolving the level of ordinary skill in the pertinent art.
  - Considering objective evidence present in the application indicating obviousness or nonobviousness.
- Claims 1, 7, and 13 are rejected under 35 U.S.C. 103(a) as being unpatentable over Ohiro et al. (US 20030170008 A1) in view of Yasuda et al. (US 5949792 A).

Re claim 1, Ohiro discloses a recording medium (paragraph [0050]) for storing system stream including video elementary stream generated by encoding video information and audio elementary stream generated by encoding audio information with the video elementary stream and the audio elementary stream being multiplexed (one of ordinary skill in the art at the time of the invention would have found it obvious that the

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broadcasting signals received by the analog broadcasting reception unit 101 and the digital broadcasting reception unit 104, in Fig. 1, would be comprised of both video and audio data multiplexed for broadcast transmission), and the system stream is allowed to have a first format (TS) and a second format (PS) (paragraph [0050]), the first format is allowed to have a constrained format used for converting the system stream from the first format (TS) to the second format (PS) (paragraph [0050]).

Ohiro does not specifically disclose a presentation order of the video information including continuous complete data blocks starts at a top field and ends at a bottom field, the continuous complete data blocks are included in continuous reference presentation time for video information and audio information, and the continuous reference presentation time includes at least one data block. However, Yasuda discloses that each packet of video data contains a presentation time stamp (PTS) in the packet header (column 2, lines 30-37), which represents a time at which the data is displayed. This time stamp ensures that packets of sequential video data are displayed continuously. Furthermore, Yasuda discloses a top field first flag (column 7, lines 12-35), which enables the top field to be displayed first, and, consequently, the bottom field last.

Since Yasuda relates to MPEG 2 program and transport stream packets (column 2, line 61 through column 3, line 2), and Ohiro relates to switching between MPEG 2 program and transport stream formats for recording onto a computer readable medium, one of ordinary skill in the art at the time of the invention would have found it obvious to combine their teachings in order to maximize storage efficiency.

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Re claim 7, Ohiro discloses an information recording apparatus (paragraph [0008]) and recording the system stream to a recording medium, the system stream being allowed to have a first format (TS) and a second format (PS) (Fig. 1; paragraphs [0008], [0024], [0026], and [0050]), the information recording apparatus comprising:;, wherein the first format (TS) is allowed to have a constrained format used for converting the system stream from the first format (TS) to the second format (PS) (paragraphs [0051] and [0057]).

Ohiro does not specifically state that the system is for encoding video information and audio information to system stream. However, Yasuda discloses an apparatus for encoding a digital signal (column 5, lines 17-19). Yasuda further discloses an encoding section operable to encode video information and audio information in a predetermined encoding manner according to the first format (TS) to generate video elementary stream and audio elementary stream (Figs. 2A and 2B; column 2, lines 61-67; column 5, lines 46-64). Furthermore, Yasuda discloses an encoding section operable to perform system-encoding by multiplexing the video elementary stream and the audio elementary stream to generate the system stream according to the first format (TS) (column 7, lines 12-30) and a control section operable to control the encoding section (column 5, lines 54-57; the scheduler controls the packetizing of the data stream). Finally, Yasuda also discloses a presentation order of the video information including continuous complete data block starts at a top field and ends at a bottom field, the continuous complete data blocks are included in continuous reference presentation time for video information and

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audio information, and the continuous reference presentation time includes at least one data block (column 7, lines 12-35).

Since Yasuda relates to MPEG 2 program and transport stream packets (column 2, line 61 through column 3, line 2), and Ohiro relates to switching between MPEG 2 program and transport stream formats for recording onto a computer readable medium, one of ordinary skill in the art at the time of the invention would have found it obvious to combine their teachings in order to maximize storage efficiency.

Re claim 13, Ohiro discloses an information recording method (paragraph [0023]) and recording the system stream to a recording medium (paragraph [0050]), the system stream being allowed to have a first format (TS) and a second format (PS) (paragraph [0050]), the first format (TS) is allowed to have a constrained format used for converting the system stream from the first format (TS) to the second format (PS) (Fig. 1; paragraph [0050]).

Ohiro does not specifically disclose encoding video information and audio information to system stream. However, Yasuda does disclose encoding video information and audio information to system stream (column 5, lines 17-19), wherein the method includes encoding video information and audio information in a predetermined encoding manner according to the first format (TS) to generate video elementary stream and audio elementary stream (column 7, lines 6-19) and performing system-encoding by multiplexing the video elementary stream and the audio elementary stream to generate the system stream according to the first format (TS) (column 7, lines 12-19) and a presentation order of the video information including continuous complete data

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blocks starts at a top field and ends at a bottom field, the continuous complete data blocks are included in continuous reference presentation time for video information and audio information, and the continuous reference presentation time includes at least one data block (column 7, lines 12-35).

Since Yasuda relates to MPEG 2 program and transport stream packets (column 2, line 61 through column 3, line 2), and Ohiro relates to switching between MPEG 2 program and transport stream formats for recording onto a computer readable medium, one of ordinary skill in the art at the time of the invention would have found it obvious to combine their teachings in order to maximize storage efficiency.

### Conclusion

- 7. The prior art made of record and not relied upon is considered pertinent to applicant's disclosure:
  - a. Information recording medium, and apparatus and method for recording information on information recording medium

Yahata et al. (US 20040240856 A1)

b. Packet multiplexing system

Sanami (US 6014368 A)

 Information recording medium, apparatus and method for recording or reproducing data thereof

Okada et al. (US 6266483 B1)

Method and apparatus for converting data streams
 Morris (US 20010009548 A1)

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e. Data decoding system and method, transfer device and method, and receiving device and method

Yanagihara et al. (US 6211800 B1)

Data stream converting apparatus

Tozaki et al. (US 6567409 B1)

g. Transport stream to program stream conversion

Gendel (US 6868125 B2)

## Contact

Any inquiry concerning this communication or earlier communications from the examiner should be directed to Christopher Findley whose telephone number is (571) 270-1199. The examiner can normally be reached on Monday-Friday 7:30am-5pm, Alternate Fridays off.

If attempts to reach the examiner by telephone are unsuccessful, the examiner's supervisor, Mehrdad Dastouri can be reached on (571) 272-7418. The fax phone number for the organization where this application or proceeding is assigned is 571-273-8300.

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Information regarding the status of an application may be obtained from the Patent Application Information Retrieval (PAIR) system. Status information for published applications may be obtained from either Private PAIR or Public PAIR. Status information for unpublished applications is available through Private PAIR only. For more information about the PAIR system, see http://pair-direct.uspto.gov. Should you have questions on access to the Private PAIR system, contact the Electronic Business Center (EBC) at 866-217-9197 (toll-free). If you would like assistance from a USPTO Customer Service Representative or access to the automated information system, call 800-786-9199 (IN USA OR CANADA) or 571-272-1000.

/Christopher Findley/



#### Notice of References Cited Examiner

Applicant(s)/Patent Under Application/Control No. Reexamination 10/552,372 YAHATA ET AL.

Art Unit Page 1 of 1 Christopher Findley 2621

U.S. PATENT DOCUMENTS

*		Document Number Country Code-Number-Kind Code	Date MM-YYYY	Name	Classification
*	Α	US-5,949,792 A	09-1999	Yasuda et al.	370/474
*	В	US-6,014,368 A	01-2000	Sanami, Jun	370/242
*	С	US-6,211,800 B1	04-2001	Yanagihara et al.	341/50
*	D	US-2001/0009548 A1	07-2001	Morris, Octavius J.	370/392
*	E	US-6,266,483 B1	07-2001	Okada et al.	386/128
*	F	US-6,567,409 B1	05-2003	Tozaki et al.	370/395.64
*	G	US-2003/0170008 A1	09-2003	Ohiro et al.	386/111
*	н	US-2004/0240856 A1	12-2004	Yahata et al.	386/098
*	1	US-6,868,125 B2	03-2005	Gendel, Gary Allen	375/240.26
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FOREIGN PATENT DOCUMENTS

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NON-PATENT DOCUMENTS

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A copy of this reference is not being furnished with this Office action. (See MPEP § 707.05(a).)

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